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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/806,837	03/23/2004	Joseph Pugach		4239	
9961	7590 10/20/2006		EXAMINER		
PAUL A. BECK & ASSOCIATES			VANOY, TIMOTHY C		
	SUITE 100 1575 McFARLAND ROAD		ART UNIT	. PAPER NUMBER	
PITTSBURGH, PA 15216-1808			1754		
			DATE MAILED: 10/20/200	DATE MAILED: 10/20/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office A -41 Over	10/806,837	PUGACH, JOSEPH				
Office Action Summary	Examiner	Art Unit				
	Timothy C. Vanoy	1754				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 21 Se	eptember 2006.					
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
 4) Claim(s) 1-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-26 is/are rejected. 7) Claim(s) 21 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examine. 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the correct of the contract of the contra	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)		•				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

Art Unit: 1754

DETAILED ACTION

Specification

a) The status of the parent application set forth on pg. 1 in the specification should be updated.

Claim Objections

a) In claim 21 line 2, "said" is misspelled.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

The person having ordinary skill in the art has the capability of understanding the scientific and engineering principles applicable to the claimed invention. The references of record in this application reasonably reflect this level of skill.

Application/Control Number: 10/806,837

Art Unit: 1754

Claims 1-26 are again rejected under 35 U.S.C. 103(a) as being unpatentable over DE 198 36 585 C1 to Plzak.

The English abstract of the Plzak publication describes the use of a gold/iron catalyst material for oxidizing carbon monoxide in reformate hydrogen.

The German text within the Plzak publication appears to describe two different ways in which the iron/gold catalyst was made. It appears that according to one method set forth on pg. 2 line 66 to pg. 4 in the Plzak publication, a water soluble Fe(III) salt was mixed with a base; then the resulting iron hydrogel-containing solution was mixed with a water-soluble gold compound to form gold clusters on the surface of the iron hydrogels; the water of the resulting suspension was separated off from the resulting reaction product solids, and the resulting reaction product solids were calcined at a temperature in the range of 350 to 700 °C to produce the iron/gold catalyst. It appears that according to another method set forth on pg. 3 lines 13-17 in the Plzak publication, a solution comprising both water soluble Fe(III) salts and water soluble gold compound was mixed with a base; the water was separated off from the iron and gold compound-containing reaction product, and the iron and gold compound-containing reaction product was calcined at 350 to 700 °C to produce the gold and iron-containing catalyst.

It is expected that the iron and gold-containing catalyst will also inherently be activated as it oxidizes the carbon monoxide in the oxygen and hydrogen-containing gas (please also see pg. 4 line 55 in the Plzak publication). Please note that pg. 4 lines 54-55 in the Plzak publication sets forth that the gas being treated comprises 1% CO,

Application/Control Number: 10/806,837

Art Unit: 1754

1%O₂, 75%H₂ and the balance being nitrogen, and that the treatment temperature is 80 °C (the same conditions required in the applicant's activation step).

Note that "Vergleichsbeispiel 1" on pg. 4 sets forth the use of Fe(NO₃)₃ · 9H₂O;

HAuCl₄ · 3H₂O and also Na₂CO₃ at a temperature of 80 °C and a pH ranging from 7.9 to 8.1.

The difference between the applicants' claims and the Plzak publication is that the applicants' claims set forth that the catalyst product was ground to a size ranging from 0.85 mm to 4.25 mm, whereas the Table set forth on pg. 5 in the Plzak publication sets forth catalyst particle sizes that may range from 2.5 nm. to 4.5 nm.

The sentence set forth on pg. 4 lines 35-36 in the Plzak publication sets forth that the catalyst material of the invention may be compressed or molded into pellets.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to grind the catalyst material to a size ranging from 0.85 mm to 4.25 mm, as required in the applicants' claims, because the sentence set forth on pg. 4 lines 35-36 in the Plzak publication sets forth that the catalyst material may be may be molded or compressed into pellets and the "Pellets" set forth in pg. 4 line 36 in the Plzak publication is not seen to be distinct from the solids having a size ranging from 0.85 mm to 4.25 mm as set forth in the applicants' claims.

Response to Arguments

Applicant's arguments filed Sept. 21, 2006 have been fully considered but they are not persuasive.

Art Unit: 1754

a) The applicant argues that the materials on which a process is carried out must be accorded weight in determining the patentability of a process. MPEP 2116 citing Ex parte Leonard 187 USPQ 122 (Bd. App. 1974). The Federal Circuit has indicated that a process for using a composition of matter is independently patentable from the composition of matter. Studiengesellschaft Kohle mbH vs. Northem Petrochemical Co. 784 F.2d 351, 354 (Fed. Cir. 1986). Examining the process claim at issue in Studiengesellschaft shows that defining the process of how the catalyst is made is an acceptable practice. If the method of how the catalyst was formed was not considered a limitation in the above claim, it would be highly unlikely that it would have been allowed. The claim was probably allowed because of the claim limitations describing how the catalyst was formed. There are many patents that have a process limited by how the catalyst was formed. A few examples are Patent Numbers 7,091,385; 7,098,366 and 7,060,766.

The argument is not persuasive because it is incomplete in as much as it is not clear the claims were allowed in the cited cases because the applicants have provided unexpected results in either their specification or in a declaration. In the instant application, the applicant has not provided unexpected results or comparative examples showing the criticality of the applicant's argued activation step. The applicant's specification only appears to show unexpected results for the use of an unsupported catalyst as compared to a supported catalyst, but the applicant's specification does not show unexpected results for the use of an activated catalyst as compared to the use of an unactivated catalyst. Nor has the applicant submitted a declaration showing the

Application/Control Number: 10/806,837

Art Unit: 1754

criticality of the activation step set forth in the applicants' claims as compared to the same catalyst that was not activated.

It is submitted that some degree of activation inherently occurs in the catalyst of DE 198 36 585 as it is calcined (evidently in air) which inherently contains the same claimed hydrogen and oxygen.

Lastly, the applicant seems to admit that the process for using a composition of matter is independently patentable from the composition of matter.

An English translation of DE 198 36 585 A1 is enclosed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 1754

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy C. Vanoy whose telephone number is 571-272-8158. The examiner can normally be reached on Mon-Fri 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman,, can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Timethy C Valuey
Timothy C Vanoy
Primary Examiner
Art Unit 1754